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VANIA.

ATLAS SOUTHERN ANTHRACITE FIELD, PART 6.

NINE CROSS SECTION SHEETS, across that part of the Southern basin, in Schuylkill, Dauphin and Lebanon Counties, embraced in Southern Field Mine Sheets Nos. XIII and XIII A, Atlas S. A. F., Part II, and Sheets No. XVI—XXVII, Atlas S. A. F., Part III.

Scale, 400 feet to 1 inch, $\frac{1}{4800}$ths of Nature.

Nos. XIII, XIV and XV. Section No. 21, through the mine workings of Otto, South Pyne, Feger Ridge and Blackwood collieries. (The northern end of this section is published on sheet XVI.)

Section No. 22, through the mine workings of Middle Creek colliery.

Skeleton Map on sheet No. XV, showing the geographical position of sections Nos. 21 and 22.

Nos. XVI, XVII and XVIII. Section No. 23, through the mine workings of Kemble Drift, Colket, Clark & McCormick, Spangler and Red Mountain collieries.

Section No. 24, through the mine workings of New Lincoln, Lincoln and Rausch Creek Collieries.

Skeleton map on sheet No. XVIII, showing the geographical position of sections Nos. 23 and 24.

No. XIX. Section No. 25, through the mine workings of Good Spring colliery.

Section No. 26, through the mine workings of Brookside colliery.

Skeleton Map.

No XX. Section No. 27, through the mine workings of Williamstown colliery.

Section No. 28, through the mine workings of Short Mountain colliery.

Skeleton Map.

No. XXI. Section No. 29, through the mine workings of Kalmia colliery.

Section No. 30, through the mine workings of the old Rausch Gap colliery.

Section No. 31, through the Old Tunnel at Yellow Springs.

Section No. 32, through the Old North Vein Drift, 7,200′ N. E. of Ellendale Forge.

Skeleton Map.

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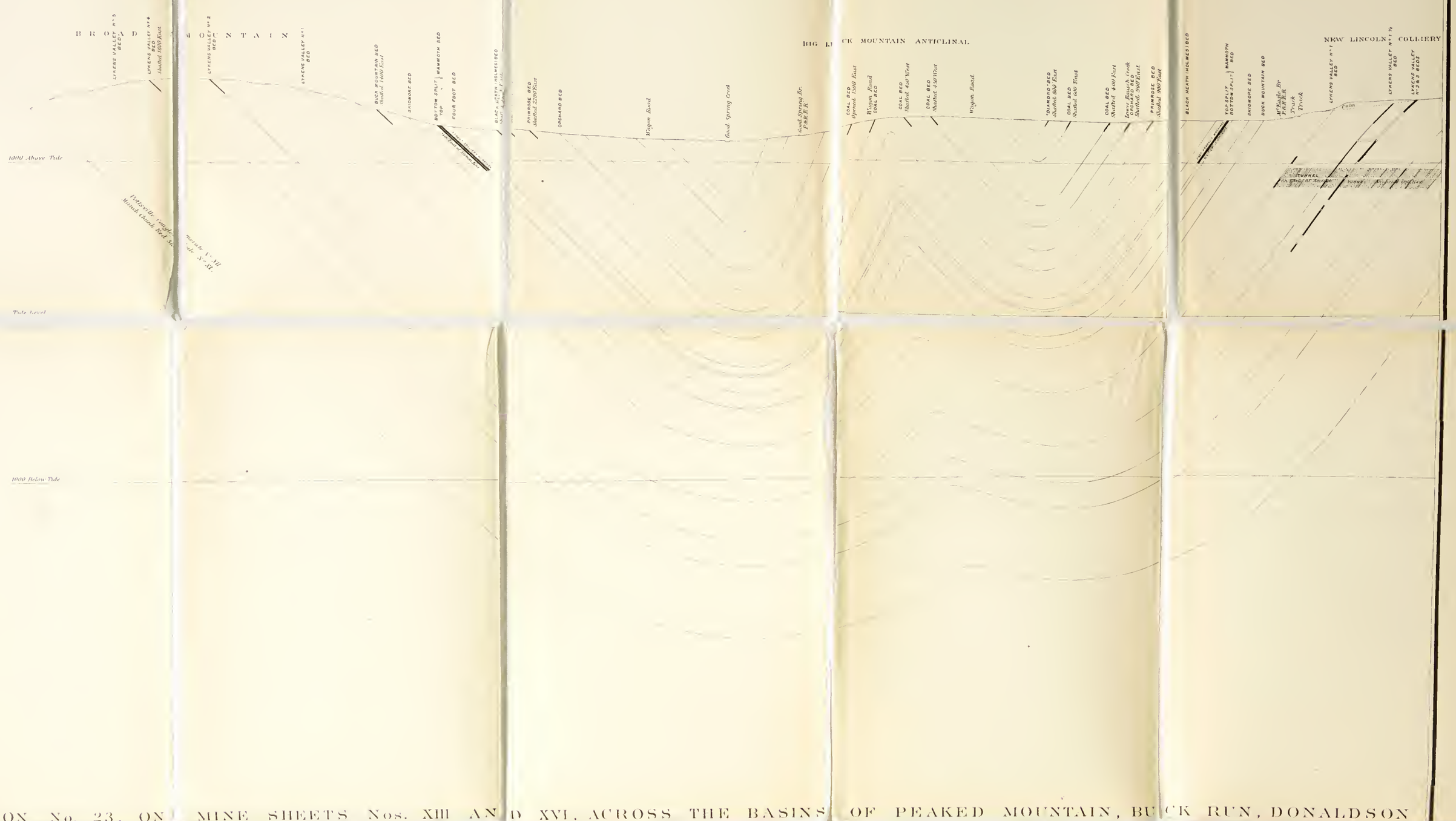
158704

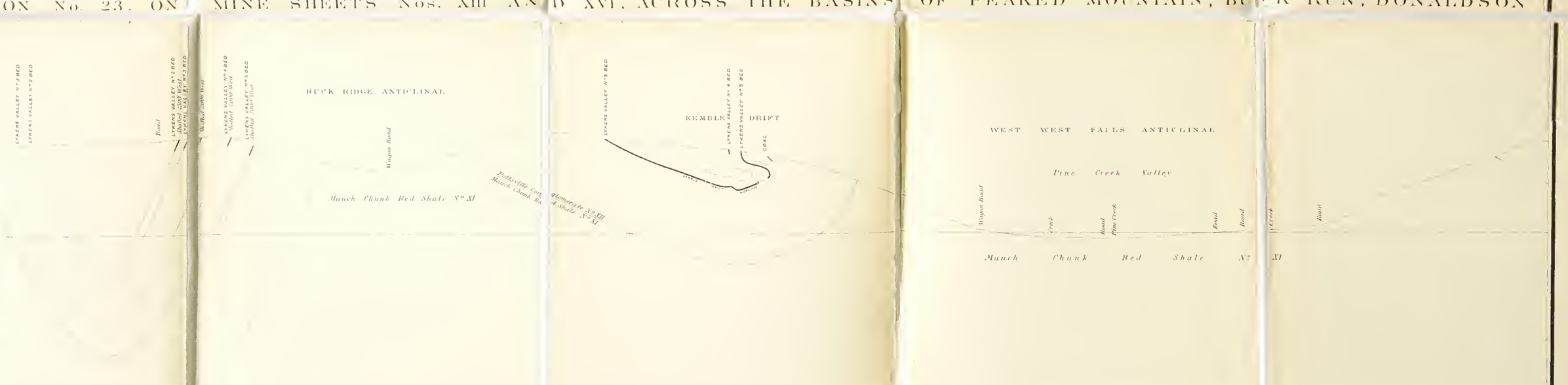
GEOLOGICAL SURVEY OF PENNSYLVANIA. J. P. LESLEY, STATE GEOLOGIST

ANTHRACITE DISTRICT A. DW. SMITH, ASSISTANT GEOLOGIST

SECTION No. 24, ON MINE SHEETS Nos. XVII AND XXI, ACROSS THE DONALDSON AND LOWER RAUSCH CREEK BASINS;



SECTION No. 23, ON MINE SHEETS Nos. XIII AND XVI, ACROSS THE BASINS OF PEAKED MOUNTAIN, BUCK RUN, DONALDSON



Notes

1. The character of the strata has only been studied, for more definite information respecting the thickness and character of the coal beds and of the strata between them, reference must be made to the Columnar Section sheets.
2. The positions of the coal beds are shown with any certainty where they are indicated by a heavy line or by two light lines; but in the latter case the coal has generally been worked out of the bed where the section plane intersects it. Where the coal beds are represented by a single light line their positions are only approximately known.
3. The sections on this sheet have been constructed from the surface and underground surveys of the Philadelphia and Reading Coal and Iron Company, P. W. and W. S. Shearer, Mining Engineers, and from those made by the Geological Survey.

KEY TO SHEETS Nos XVI XVII & XVIII

XVIII	XVII	XVI
SECTION No 24		
SECTION No 23		

Scale 100 Feet to 1 Inch

JULIUS BIEN & CO. LITH.

REFERENCE SURVEY MAPS AND SECTIONS

SOUTHERN COAL FIELD { MINE SHEETS Nos XIII, XVI & XVII. ATLAS AA PARTS II & III / COLUMNAR SECTION SHEETS IV-XI. ATLAS AA PART IV

JUNE 1891.

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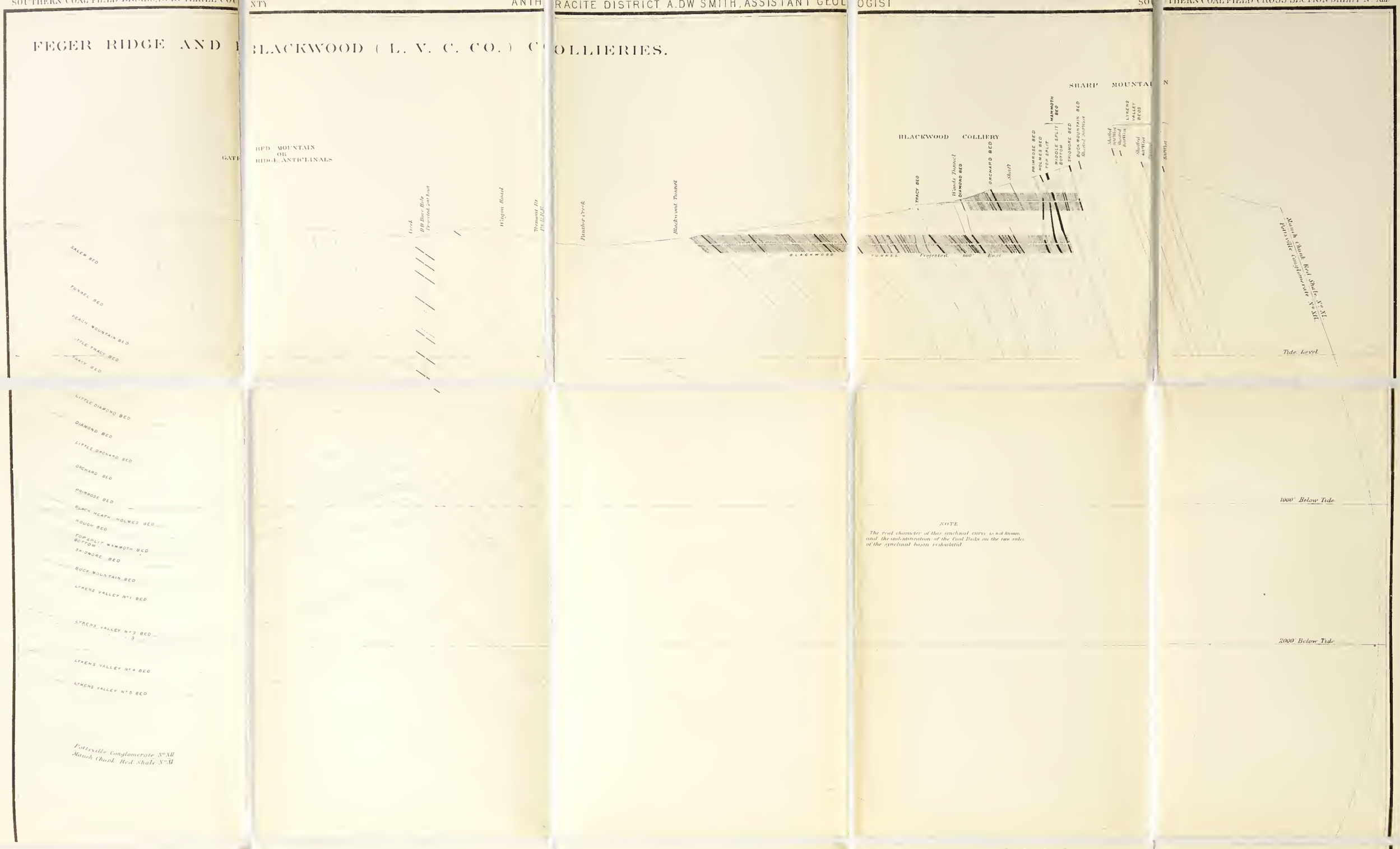
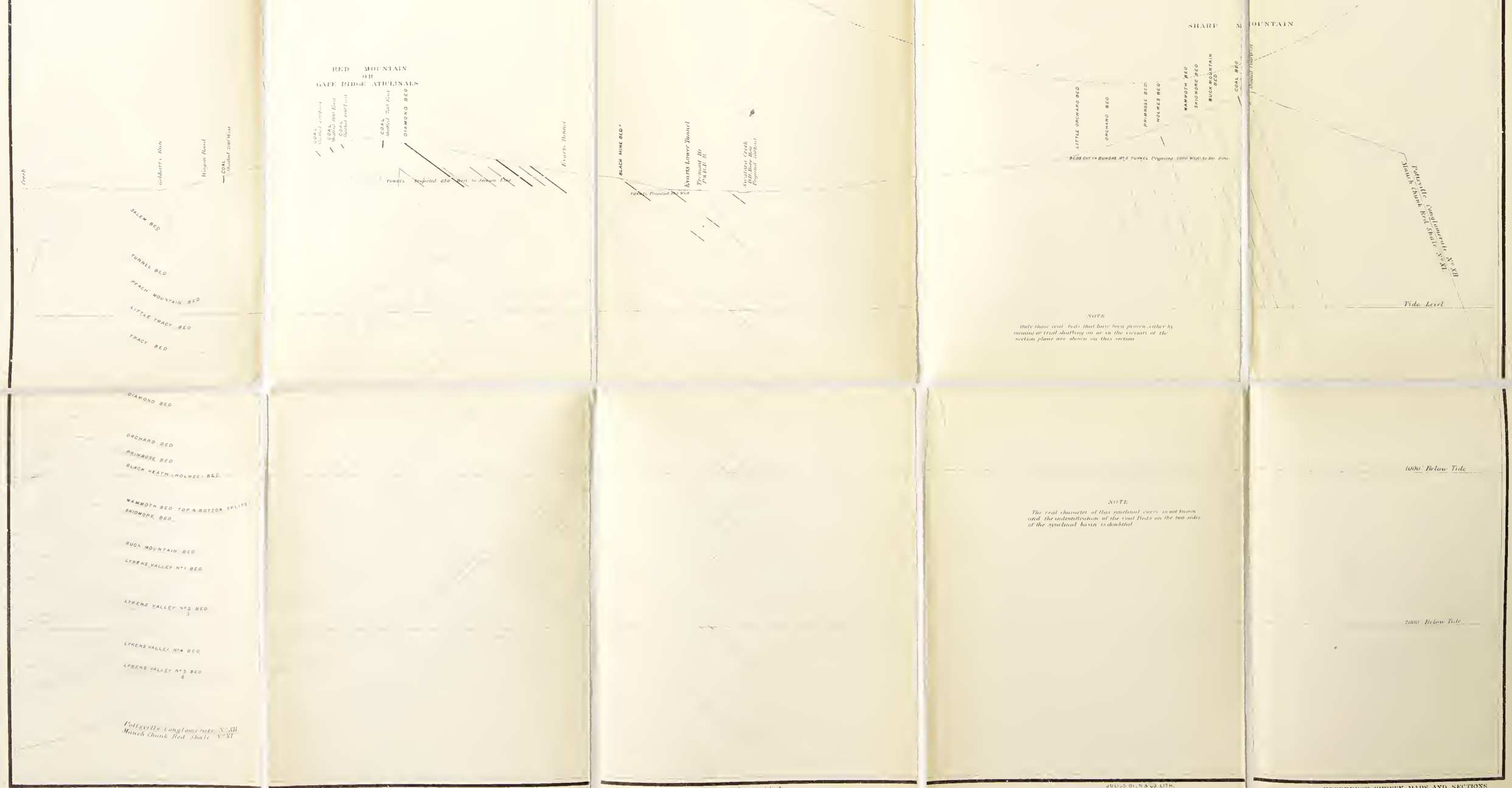
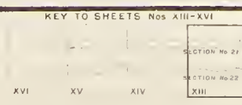
FEGER RIDGE AND BLACKWOOD (L. V. C. CO.) COLLIERIES.



THE MINE WORKINGS OF MIDDLE CREEK (P & R. C & I. CO.) COLLIERY.



KEY TO SHEETS Nos XIII-XVI



E. M. Key ... A. D. Smith

Scale 400 feet to 1 inch

JUNE 1891.

JULIUS BIEN & CO. LITH.

REFERENCE SURVEY MAPS AND SECTIONS
SOUTHERN COAL FIELD
MINE SHEETS Nos. XII, XIII, XV & XVI
ATLAS AA PARTS II & III
COLUMNAR SECTION SHEETS IV IX
ATLAS AA PART IV

ATLAS SOUTHERN ANTHRACITE FIELD, PART 6, CROSS SECTION SHEET XIV.

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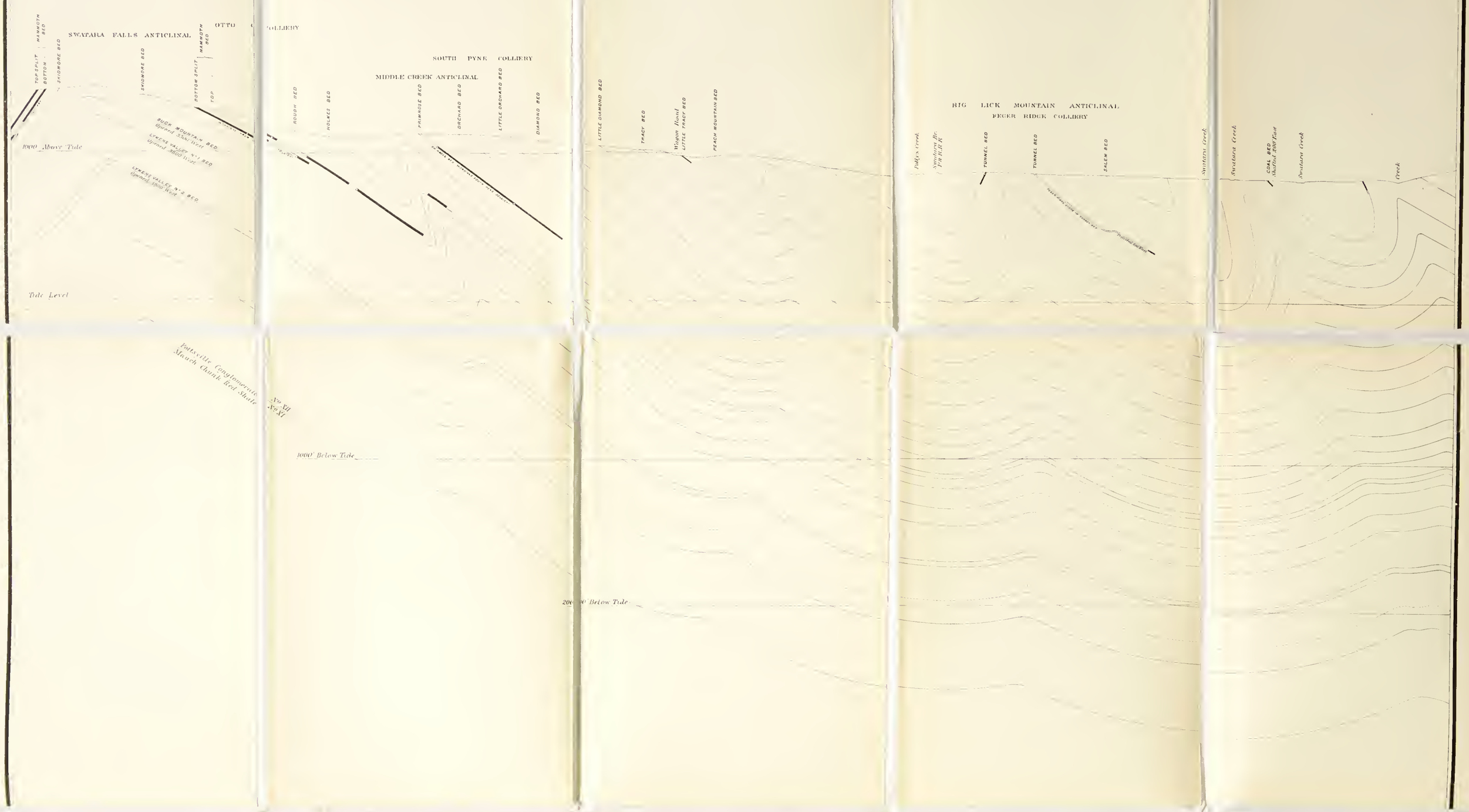
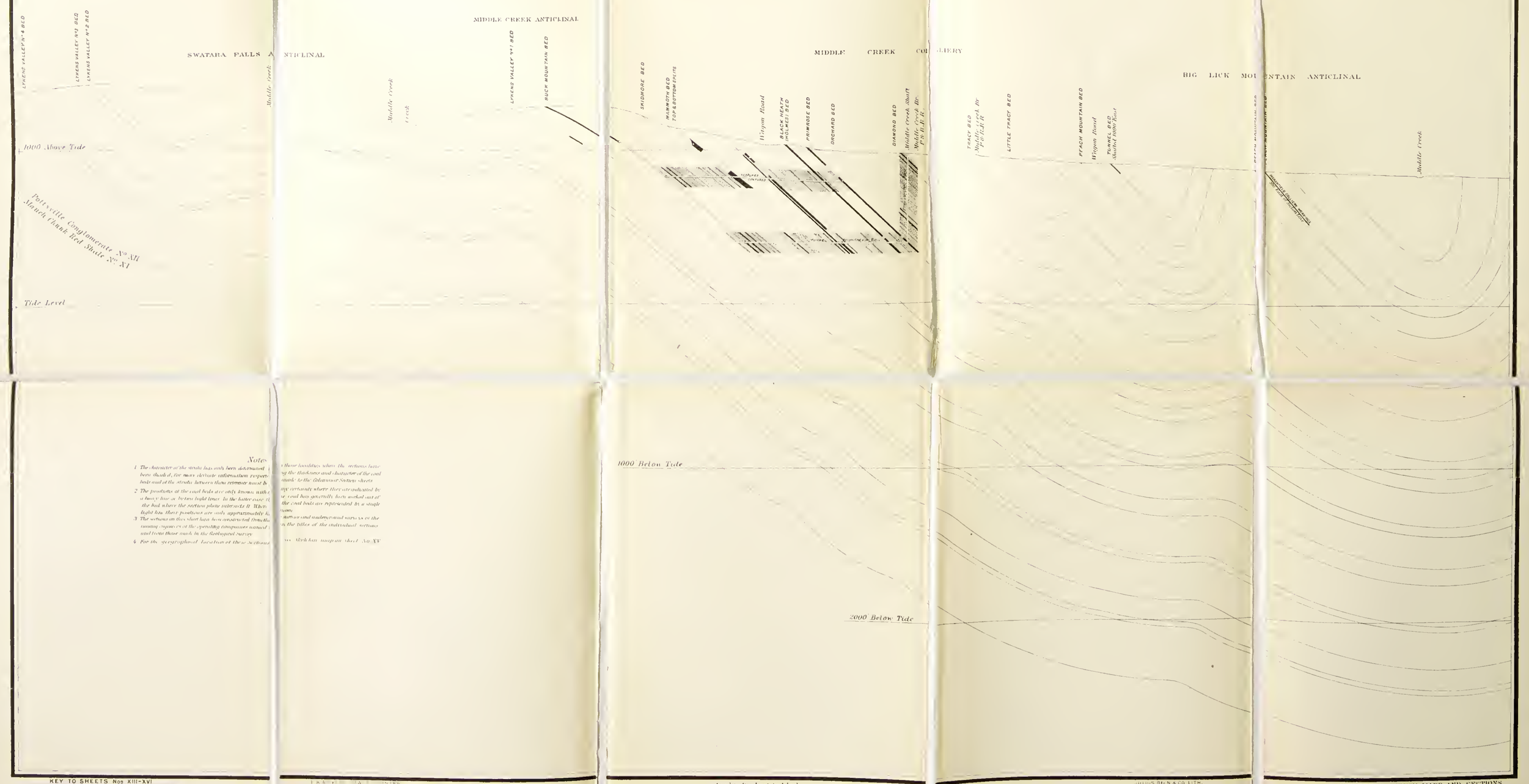
GEOLOGICAL SURVEY OF PENNSYLVANIA. J. P. LESLEY, STATE GEOLOGIST
ANTHRACITE DISTRICT. A. D. W. SMITH, ASSISTANT GEOLOGIST

SWATARA, RED MOUNTAIN AND SHARP MOUNTAINS THROUGH THE MINE WORKINGS OF OTTO, SOUTH PYNE, (P & R. C & I. CO.)



BASINS OF PEAKED MOUNTAIN, BUCK RUN, MIDDLE CREEK, TREMONT, RED MOUNTAIN AND SHARP MOUNTAIN, THROUGH

Bearing N. 29° 15′ W.



Notes

1. The character of the strata has only been determined where shafts or other definite information respecting the rock and of the strata between them reference must be made to the Columnar Section sheets.
2. The positions of the coal beds are only known with certainty where they are indicated by a heavy line as between light lines. In the latter case the coal has generally been worked out or the bed where the section plane intersects it. Where the coal beds are represented by a single line, the coal beds are represented by a single light, their positions are only approximately known.
3. The sections on this sheet have been constructed from the surface and underground surveys of the mining companies and from the titles of the individual sections and from those made by the Geological Survey.
4. For the geographical location of these sections see Mechanicsburg map sheet No. XV.

KEY TO SHEETS Nos XIII–XVI

Scale 1000 feet to 1 Inch

Nature Printed at the Department of Nature

JULIUS BIEN & CO. LITH.

JUNE 1891.

REFERENCE SURVEY MAPS AND SECTIONS
SOUTHERN COAL FIELD
MINE SHEETS Nos. XII, XIII, XV & XVI.
ATLAS AA PARTS II & III.
COLUMNAR SECTION SHEETS IV–XI.
ATLAS AA PART IV.

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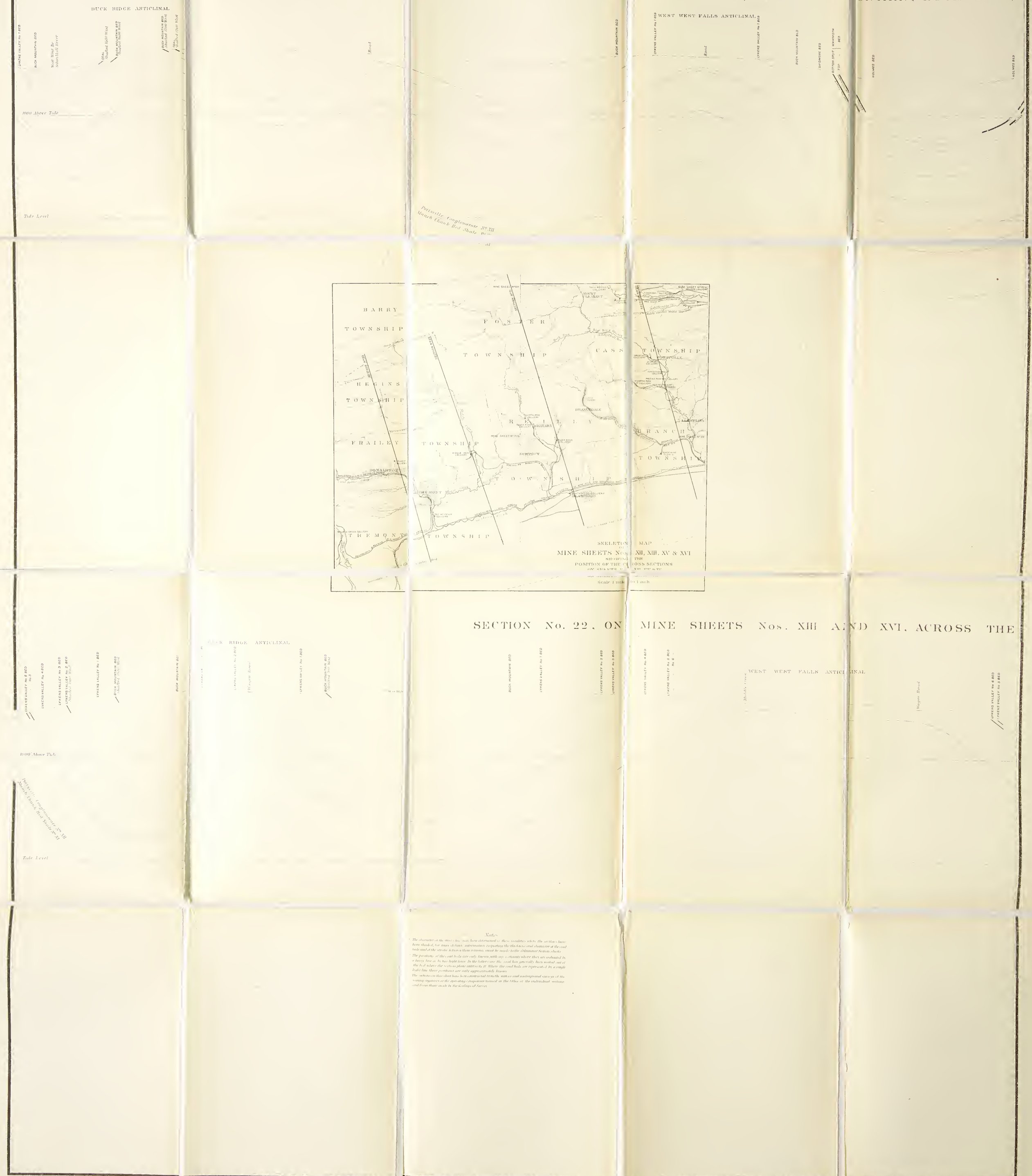
Atlas
v.4pt6
Geol.

SHEETS Nos. VIII^A, XIII, XII AND XV, ACROSS THE BASINS OF HECKSCHERVILLE VALLEY, PEAKED MOUNTAIN, BUCK RUN,



Notes

1. The character of the strata has been determined at those localities where the sections have been shaded, for many distinct information respecting the thickness and character of the coal beds and of the strata between them referred, must be made to the columnar Section sheets.
2. The positions of the coal beds are only known with certainty where they are indicated by a heavy line as in the light line. In the latter case the coal has generally been worked out of the bed where the section plane intersects it. Where the coal beds are represented by a single light line their positions are only approximately known.
3. The sections on this sheet have been constructed from the surface and underground surveys of the mining engineers of the operating companies named in the titles of the individual sections and from those made in the Geological Survey.

KEY TO SHEETS Nos XIII–XVI

XVI XV XIV

SECTION No. 21

SECTION No. 22

XIII

Scale 400 Feet to 1 Inch

Scale ⅛ of Nature

JUNE 1891.

REFERENCE SURVEY MAPS AND SECTIONS

SOUTHERN COAL FIELD
- MINE SHEETS Nos XII, XIII, XV & XVI.
- ATLAS AA PARTS II & III.
- COLUMNAR SECTION SHEETS IV XI.
- ATLAS AA PART IV

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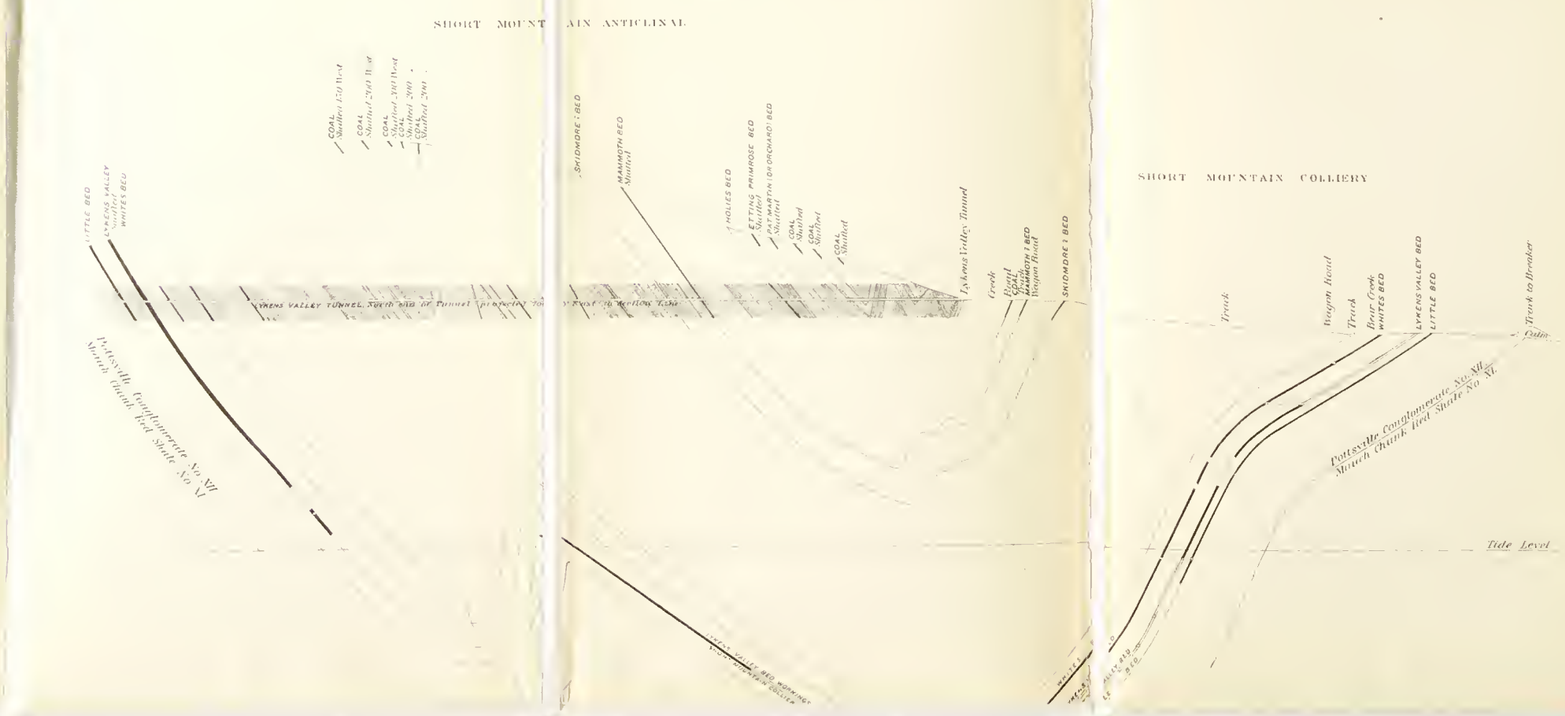
SECTION No. 27 ON MINE SHEET No. XIX ACROSS THE WICONISCO BASIN; THROUGH THE MINE WORKINGS OF THE WILLIAMSTOWN (S.B.R.R.CO.) COLLIERY

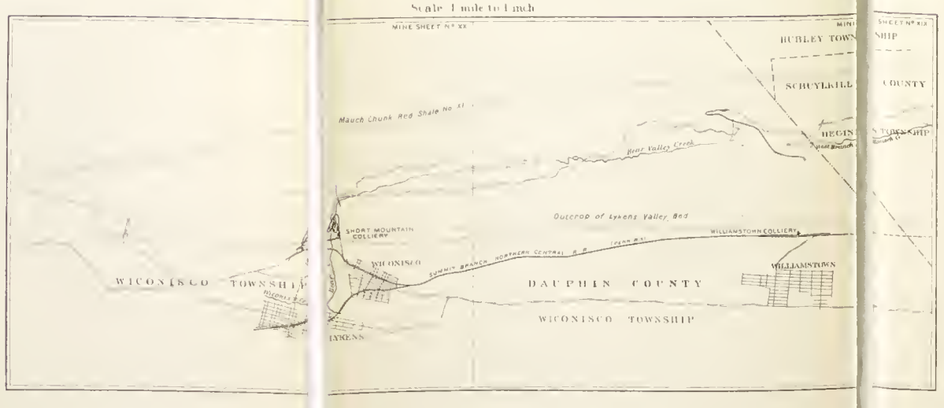
Bearing N. 6° 30′ W.

SECTION No. 28 ON MINE SHEET No. 20 ACROSS THE WICONISCO BASIN; THROUGH THE MINE WORKINGS OF SHORT MOUNTAIN (L.V.C.CO.) COLLIERY.

Bearing N. 8° W.



SKELETON MAP
OF
MINE SHEETS Nos. XIX & XX
SHOWING THE
POSITION OF THE CROSS SECTIONS
ON SHEET No. XX
Scale 1 mile to 1 inch



Notes

1. The character of the strata has only been determined in those localities where the sections have been shaded, for want of definite information respecting the thickness and character of the coal beds and of the strata between them, reference must be made to the Columnar Section sheets.
2. The positions of the coal beds are only known, with any certainty, where they are indicated by a heavy line or by two light lines. In the latter case the coal has generally been worked out of the bed where the section intersects it. Where the coal beds are represented by a single light line, their positions are only approximately known.
3. The sections on this sheet have been constructed from the surface and underground surveys of the mining companies named in the titles of the individual sections and from those made by the Geological Survey.

K. MEYERS, LITH. & PRINTER

Scale 400 Feet to 1 Inch

Scale 400 Feet of Nature

JUNE 1891.

JULIUS BIEN & CO. LITH.

REFERENCE SURVEY MAPS AND SECTIONS

SOUTHERN COAL FIELD
- MINE SHEETS Nos. XIX & XX.
- ATLAS AA PART III
- COLUMNAR SECTION SHEETS IV–IX
- ATLAS AA PART IV.

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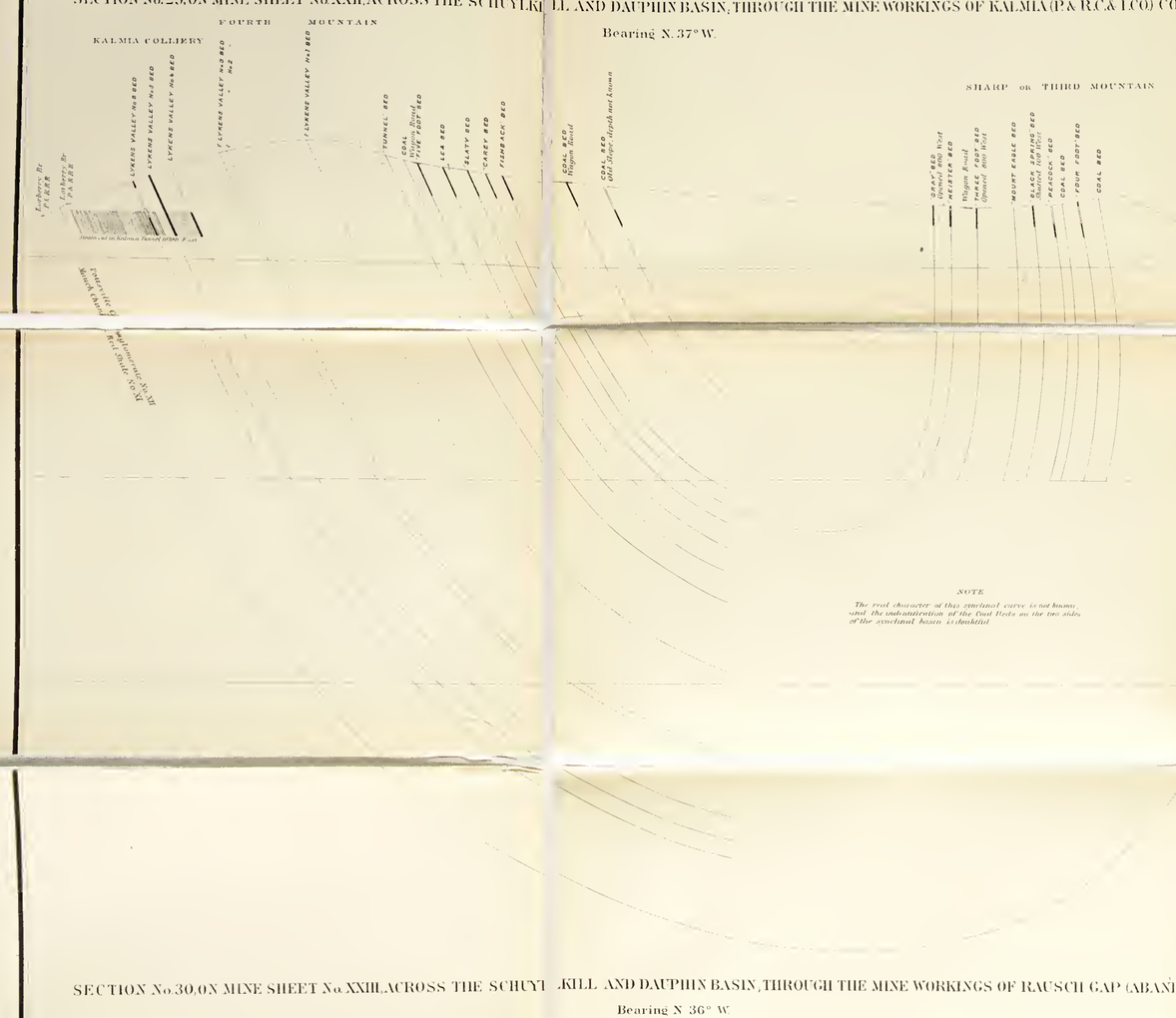
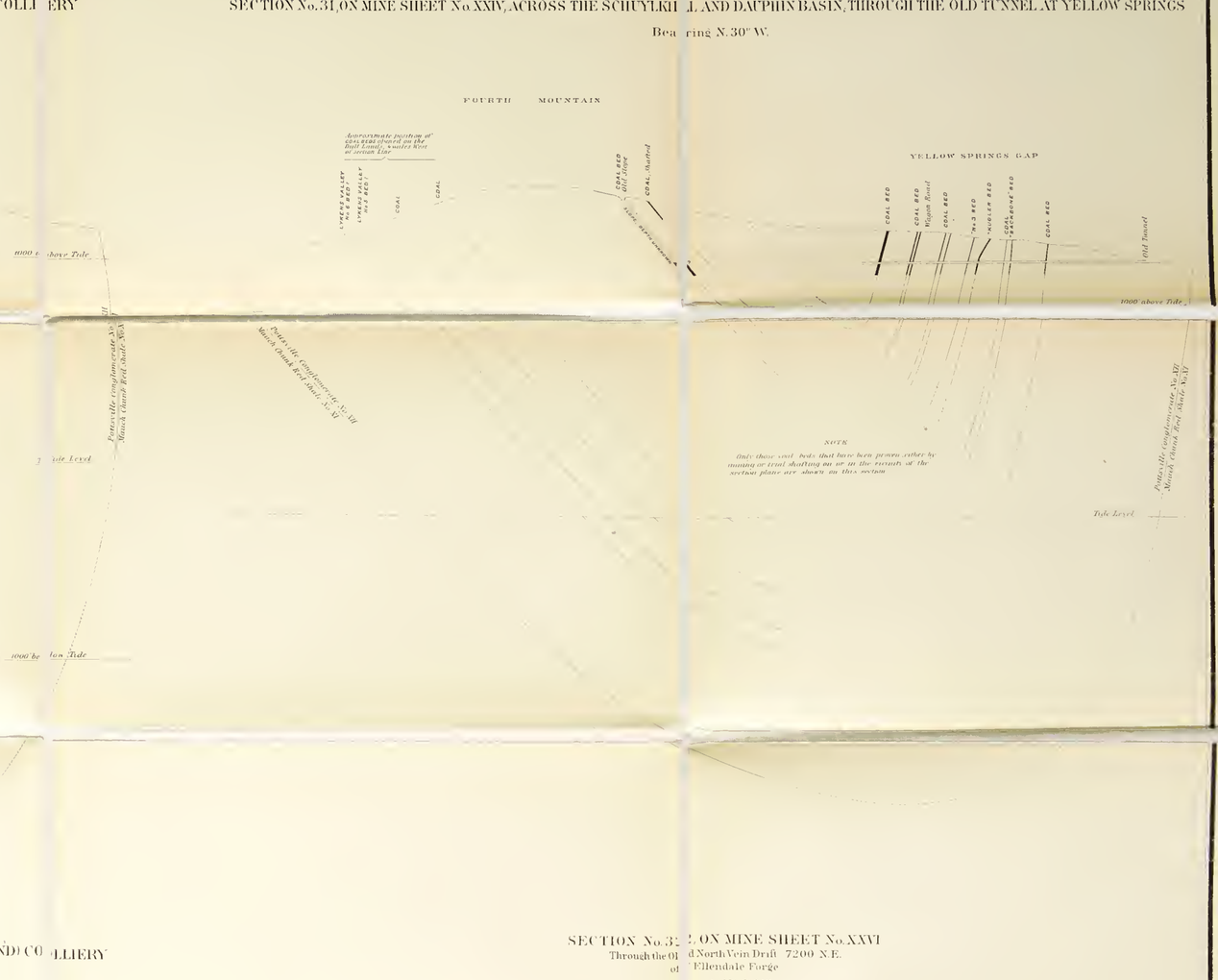
SECTION No. 29, ON MINE SHEET No. XXII, ACROSS THE SCHUYLKILL AND DAUPHIN BASIN, THROUGH THE MINE WORKINGS OF KALMIA (P. & R. C. & I. CO.) COLLIERY

Bearing N. 37° W.



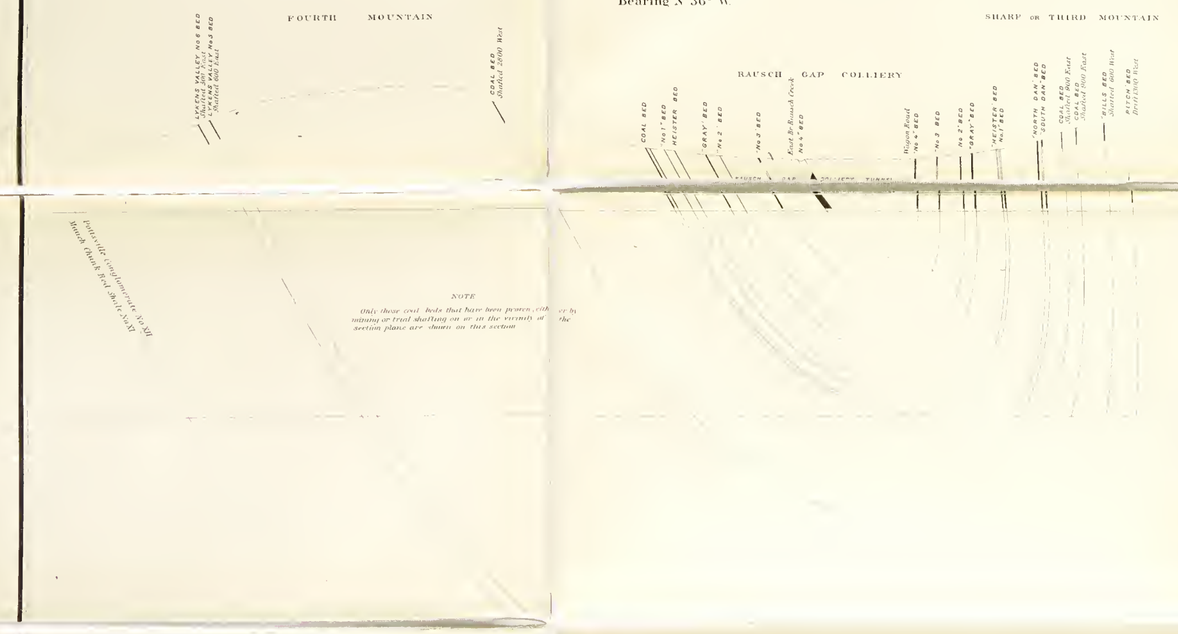
SECTION No. 31, ON MINE SHEET No. XXIV, ACROSS THE SCHUYLKILL AND DAUPHIN BASIN, THROUGH THE OLD TUNNEL AT YELLOW SPRINGS

Bearing N. 30° W.

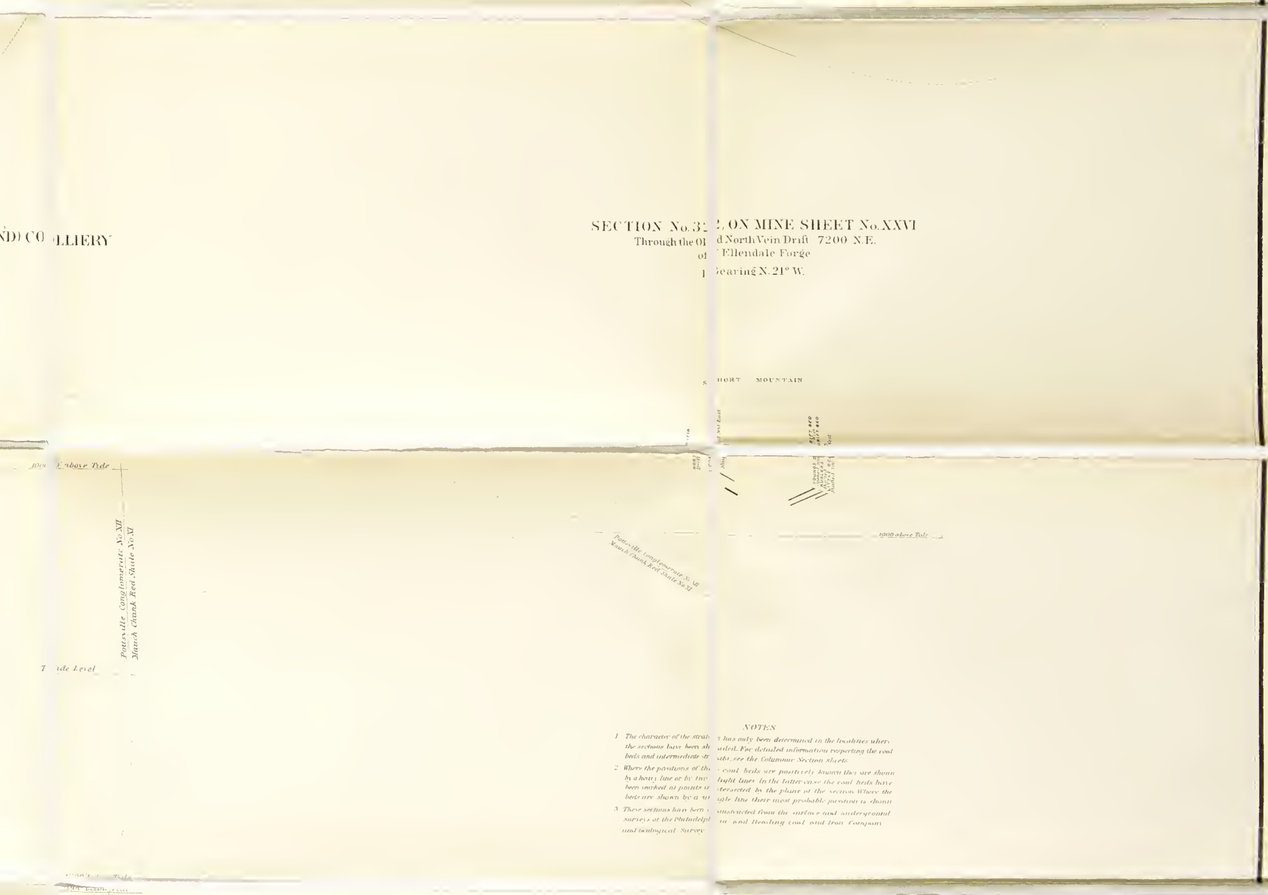


SECTION No. 30, ON MINE SHEET No. XXIII, ACROSS THE SCHUYLKILL AND DAUPHIN BASIN, THROUGH THE MINE WORKINGS OF RAUSCH GAP (ABAND.) COLLIERY

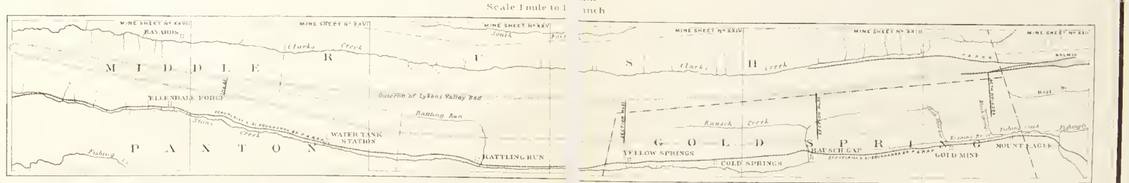
Bearing N. 36° W.



SECTION No. 32, ON MINE SHEET No. XXVI
Through the Old North Vein Drift 7200 N.E.
of Ellendale Forge
Bearing N. 21° W.



SKELETON MAP OF MINE SHEETS Nos. XXII–XXVII SHOWING THE POSITION OF THE CROSS SECTIONS ON SHEET No. XXI
Scale 1 mile to 1 inch



REFERENCE SURVEY MAPS AND SECTIONS
SOUTHERN COAL FIELD
MINE SHEETS Nos. XXI–XXVII
ATLAS AA PART III
COLUMNAR SECTION SHEETS IV–IX
ATLAS AA PART IV

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GEOLOGICAL SURVEY OF PENNSYLVANIA. J.P. LESLEY, STATE GEOLOGIST.
ANTHRACITE DISTRICT. A.DW SMITH, ASSISTANT GEOLOGIST

SECTION No. 21 ON MINE

COLLIERIES.

SHARP MOUNTAIN

SHARP MOUNTAIN COLLIERY

UNCLE NICK RED

PYCOCK RED

BEDS OPENED ALONG SOUTH SIDE OF LORBERRY GAP IN SHARP MOUNTAIN

1000 Above Tide

Mauch Chunk Red Shale No XII
Pottsville conglomerate No XII

Tide Level

LYKENS VALLEY No 5 BED
Shafted 700 West

LYKENS VALLEY No 4 BED

LYKENS VALLEY No 3 BED
LYKENS VALLEY No 2 BED

LYKENS VALLEY No 1 BED

BUCK MOUNTAIN BED

Mauch Chunk Red Shale No XII

Pottsville Conglomerate No XII

Wagon Road

LYKENS VALLEY No 2 BED
Shafted 1200 West

LYKENS VALLEY No 3 BED
Shafted 1000 West

LYKENS VALLEY No 4 BED

LYKENS VALLEY No 3 BED

LYKENS VALLEY No 2 BED

PEAKED MOUNTAIN ANTICLINAL

NOTE

Only those of the Sharp Mountain coal beds that have been proven, either by mining or trial shafting, on or in the vicinity of the Section plane, are shown on this Section

1000 Below Tide

Notes

1. The character of the strata has only been determined in those localities where the sections have been shaded, for more definite information regarding the thickness and character of the coal beds and of the strata between them reference must be made to the Columnar Section sheets
2. The positions of the coal beds are only known with any certainty where they are intersected by a heavy line or by two light lines. In the latter case the coal has generally been worked out of the bed where the section plane intersects it. Where the coal beds are represented by a single light line, their positions are only approximately known
3. The letters E.E. (= Elevation Estimated) occurring on a section signify that, for lack of definite information, the elevation at the gangway, tunnel, slope or shaft, at the point indicated, has necessarily been estimated
4. The sections on this sheet have been constructed from the surface and underground surveys of the mining engineers of the operating companies named in the titles of the individual sections and from those made by the Geological Survey
5. For the geographical location of these Sections, see Skeleton map on Sheet No XVIII

(P. & R. C. & I. CO.) CLARK & McCORMICK, SPANGLER AND RED MOUNTAIN (ABANDONED) COLLIERIES.

LITTLE LICK MOUNTAIN ANTICLINAL

LITTLE LICK MOUNTAIN RED

COAL

Wagon Road

Poplar Run

PEACH MOUNTAIN BED
Road

GATE RIDGE
OR
RED MOUNTAIN ANTICLINALS

COAL
Shafted 1070 East

COAL
Shafted 700 East

COAL
Shafted 1000 East

COAL
Shafted 1200 East

DIAMOND BED

COAL
Shafted 600 East

COAL

COAL
Shafted 1070 East

COAL
Shafted 900 East

COAL
Shafted 1000 East

DIAMOND BED
Shafted 900 East

PROJECTED 300' EAST

Lance Tunnel

PEACH MOUNTAIN BLACK MINE BED ?
Shafted 800 West

Mauch Chunk Br
P.&R. R.R.

COAL
Shafted 1000 West

Creek

Lehigh & Tremont Br
P.&R. R.R.

Swatara Creek

Wagon Road

SHARP MOUNTAIN

MAMMOTH BED

BUCK MOUNTAIN BED

LYKENS VALLEY BED

BEDS OPENED AT THE SWATARA GAP IN SHARP MOUNTAIN PROJECTED 3400 EAST TO REC 100 LINE

Mauch Chunk Red Shale No XI
Pottsville Conglomerate No XII

Tide Level

NOTE

Only those of the Sharp Mountain coal beds that have been proven, either by mining or trial shafting, on or in the vicinity of the Section plane, are shown on this Section

1000 Below Tide

NOTE

The real character of this synclinal curve is not known and the identification of the Coal Beds on the two sides of the synclinal basin is doubtful

2000 Below Tide

KEY TO SHEETS Nos XVI, XVII & XVIII

	A.D.W.	E.W.	
SECTION No 24			
SECTION No 23			

K. MEYER, STAUFFER & NEER

Scale 400 feet to 1 inch

400 0 400 800 1200 1600 2000 2400 2800 3200 feet

1 0 1 2 3 4 5 6 7 8 9 10 Miles

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 feet

1 0 1 2 3 4 5 6 7 8 9 10 Kilometers

Scale of Nature

JULIUS BIEN & CO LITH

JUNE 1891.

REFERENCE SURVEY MAPS AND SECTIONS

SOUTHERN COAL FIELD
- MINE SHEETS Nos XVIII, XVI & XVII.
- ATLAS AA PARTS II & III.
- COLUMNAR SECTION SHEETS IV–XI.
- ATLAS AA PART IV

ATLAS SOUTHERN ANTHRACITE FIELD. PART 6. CROSS SECTION SHEET XVII.

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THROUGH THE MINE WORKINGS OF NEW LINCOLN (MILLER GRAEFF & CO.) LINCOLN AND RAUSCH CREEK (P & R. C & I. CO.)

Bearing N. 18° W.

NOTE

The real character of this synclinal curve is not known, and the indentification of the Coal Beds on the two sides of the synclinal basin is doubtful.

TREMONT, RED MOUNTAIN AND SHARP MOUNTAIN; THROUGH THE MINE WORKINGS OF KEMBLE DRIFT, (W. H. KEMBLE) COLKET,

Bearing N. 26° 45' W.

Notes

1. The diameter of the strata has only been determined in those localities where the sections have been shaded. For more definite information respecting the thickness and diameter of the coal beds and of the strata between them reference must be made to the Columnar Section sheets.
2. The positions of the coal beds are only known with any certainty where they are outcropping, at a hairy line or by two light lines. In the latter case the coal has generally been worked out of the bed where the section plane intersects it. Where the coal beds are represented by a single light line their positions are only approximately known.
3. The letters E. E. (= Elevation Estimated) signify that for lack of accurate information the elevation of the gangway tunnel, slope or shaft at the point indicated, has necessarily been estimated.
4. The sections on this sheet have been constructed from the surveys and underground surveys of the Philadelphia and Reading Coal and Iron Company, P. W. & S. Shearer Mining Engineers, and from those made by the Geological Survey.
5. For the geographical location of the sections see Map of Anthracite Sheet No. XVIII.

KEY TO SHEETS Nos XVI XVII & XVIII

XVIII	XVII	XVI
SECTION No 24		
SECTION No 23		

EX MILLER'S STATE PRINTER

Scale 400 Feet to 1 Inch

JULIUS BIEN & CO LITH.

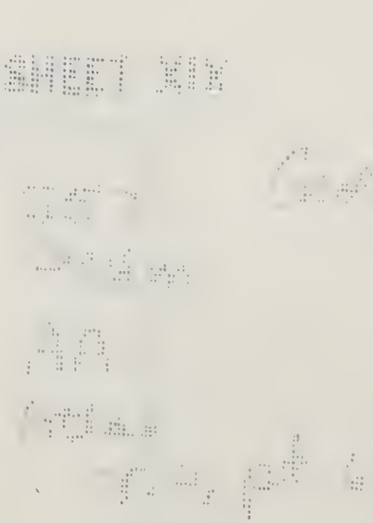
JUNE 1891.

REFERENCE SURVEY MAPS AND SECTIONS

SOUTHERN COAL FIELD { MINE SHEETS Nos. XIII, XVI & XVII. / ATLAS AA PARTS II & III / COLUMNAR SECTION SHEETS IV - XI / ATLAS AA PART IV }

ATLAS SOUTHERN ANTHRACITE FIELD, PART 6, CROSS SECTION SHEET XIX

AA



GEOLOGICAL SURVEY OF PENNSYLVANIA. J.P. LESLEY, STATE GEOLOGIST
ANTHRACITE DISTRICT. A.DW. SMITH, ASSISTANT GEOLOGIST

SECTION No. 25, ON MINE SHEET No. XVII, ACROSS THE DONALDSON AND BROOKSIDE BASINS; THROUGH THE MINE WORKINGS OF GOOD SPRING (P. & R. C.& I.CO.) COLLIERY.

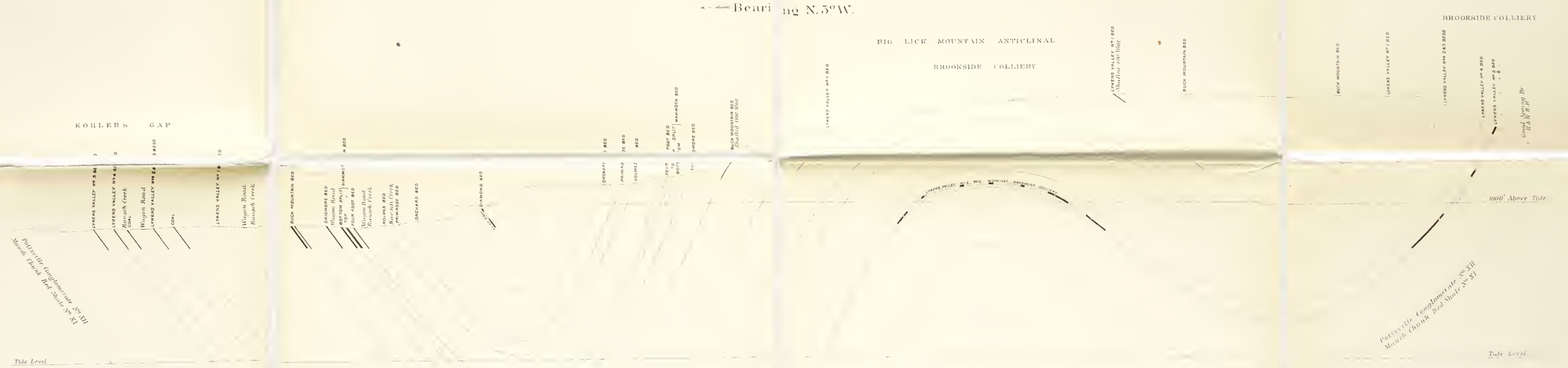
Bearing N.10°W.

Notes

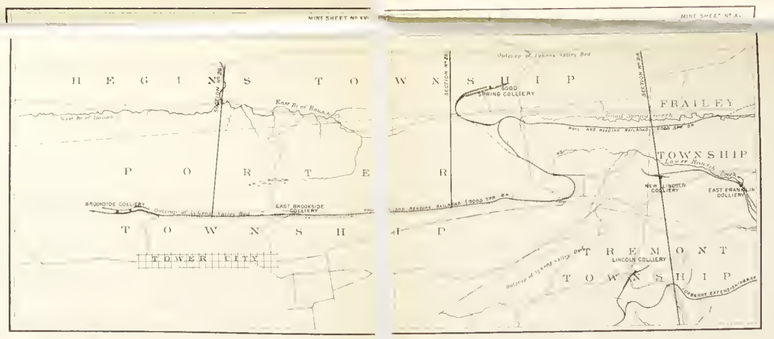
1. The character of the strata has only been determined in those boreholes where the sections have been shaded, for more definite information respecting the thickness and character of the coal beds and of the strata between them reference must be made to the Columnar Section sheets.
2. The positions of the coal beds are only known, with any certainty where they are indicated by a heavy line or by two light lines. In the latter case the coal has generally been worked out at the bed where the section plane intersects it. Where the coal beds are represented by a single light line their positions are only approximately known.
3. The sections on this sheet have been constructed from the surface and underground surveys of the mining engineers of the operating companies named in the titles of the individual sections and from those made by the Geological Survey.

SECTION No. 26, ON MINE SHEET No. XVIII, ACROSS THE DONALDSON AND BROOKSIDE BASINS; THROUGH THE MINE WORKINGS OF BROOKSIDE (P. & R. C.& I.CO.) COLLIERY.

Bearing N.5°W.



SKELET ON MAP
MINE SHEETS Nos. XVII & XVIII
SHOW ING THE
POSITION OF THE CROSS SECTIONS
ON SHEET No. XIX
Scale 1 in le to 1 inch



Scale: 400 Feet to 1 inch

Scale of Natural

JUN F 1891

REFERENCE SURVEY MAPS AND SECTIONS
SOUTHERN COAL FIELD
MINE SHEETS Nos. XVII and XVIII.
ATLAS AA PART III
COLUMNAR SECTION SHEETS X & XI.
ATLAS AA PART IV.